

I. C. Lane.
Loom Tensile.

N^o 3,511.

Patented Mar. 26, 1844.

Fig. 1.

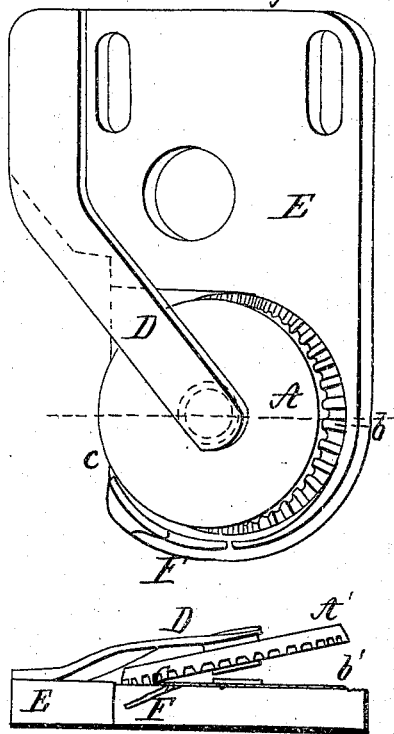


Fig. 2.

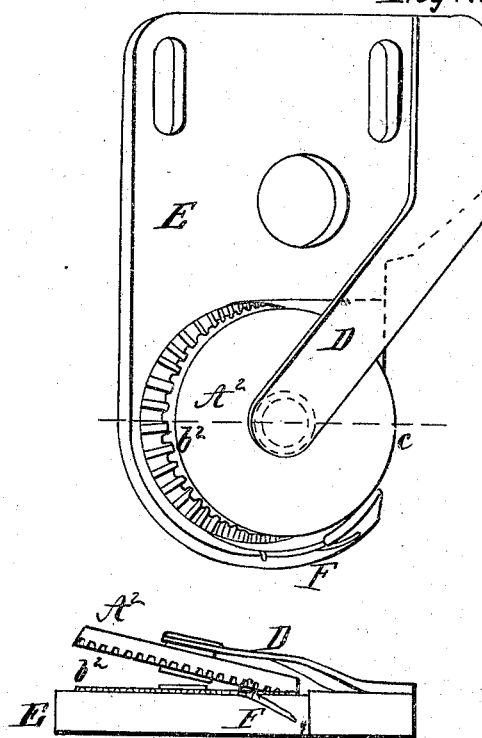


Fig. 3.

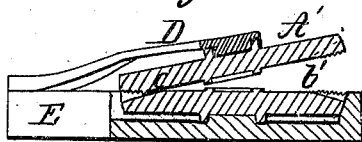
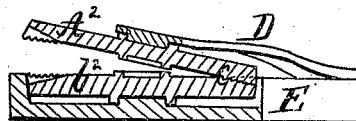


Fig. 4.



UNITED STATES PATENT OFFICE.

ISAAC C. LANE, OF WALTHAM, MASSACHUSETTS.

IMPROVEMENT IN ROTARY TEMPLES FOR LOOMS.

Specification forming part of Letters Patent No. 3,511, dated March 26, 1844.

To all whom it may concern:

Be it known that I, ISAAC C. LANE, of Waltham, in the county of Middlesex and State of Massachusetts, have invented a new and Improved Kind of Temples to be Used in Weaving and Manufacturing all Kinds of Cloths; and I do declare that the following is a full and exact description thereof.

The nature of this my invention consists of a standard and two cog-wheels to revolve one above the other, as seen in the annexed drawings, making a part of this specification, wherein—

A¹ and A² in parts first and second represent the upper wheels, which revolve in an inclined position.

b¹ and b² represent the lower wheels, which revolve horizontally. The wheels have upon their inward lateral surfaces at the circumferences cogs and grooves so fixed that the inward surfaces are contiguous at the points c c and a small distance on each side of the points c c. The other parts of the inward surfaces are at a distance from each other so that the cloth can pass between them untouched except at the points c c, where the selvage is

compressed by the wheels, which by their operation widen and extend the cloth without producing unevenness or injury to the selvage; also, my invention makes a great saving in the wear of weavers' reeds by keeping the threads of the cloth at the out edges straight, even, and in their proper places, thereby making a firm and even selvage, which no other temples do to my knowledge.

D D represent the fingers or supports that hold the upper wheels in their positions; E E, the standards in which the lower wheels revolve; F F, the guides to keep the cloth in its place.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combining of two cog-wheels together, the cogs of which are notched, to prevent the cloth held between the two wheels from being drawn out, and these thus combined with the guides, for the purpose and in the manner described in the drawings hereto annexed.

ISAAC C. LANE.

Witnesses:

ARAD MOORE,
PHINCHAS UPHAM.